STUDENT

FILING COVER

To Bind Completed Matter

~~Course given by~~

New England W. W. Welsh

SUBJECT:

For the

NATIONAL SEPARATE-LEAF NOTEBOOK

Patented by E. W. Hill, July 5, 1898.

E 8.35 - 8.45
Soft to brown sand
few sea clam shells
SSW 1 1/10 mile

F Sand to Soft Blue clay
9.05 to 9.10
Sea clam shells few quahog
shells small quahog live
SW 1/2 S 3 miles

G 9.30 - 9.35
Soft to hrd Blue-green
clay. dead quahog shells &
sea-clam shells
W S W 2 miles

10377 H. Sta

NE fresh cloudy sweet

11.25 Am – 1 PM.

16 m. 3½

0 71.5 W.S.

15 m. 148 15.9 @ 20 WS

SE by E ¼ E 7.2 miles

* Clam dredge 11.30 – 11.40

1 king crab, 1 sea robin few dead quahog + sea-clam shells.

Sled net	35 min	very little bat, ctenophore & fish eggs
½ m net ♀	30 "	
20 net ♂	30 "	few chaet

Otter trawl. 20 min

1 Lebbeus

Sea robins Rufo ♂ IIII Bond ♂ I

" ♀ II

P. dentatus 1 (45 cm.) Hyp

Sea clam shells

TT
10702 & 10
10715

10377 I. 16 m. SE½E ¾E
2.08 PM — 15 min 17.2 ~~5~~ miles
Had + sfx. blue clay + sds
6 Conchs (live) + dead sea clams
1 skate TT 10717

J. Scallop dredge. SE½E ¾E 8 miles
2.32 PM. 15 min.
½ bu conchs + dead shells
sea clam

SE½E ¾E 5 miles
K. 3 PM. 5 min hooked
up. Dead sea-clam shells ½ bu
sand. smng

L. 3.14 PM 10 min ESE ¾E 4.5 miles
1 bushel sea clam shells
1 quohog shell Several live conchs.
hard blue clay.

Towers N by W
down NW by W ½ W

11 1/2 E
WNW.

M. Soft. to hrd.
3.43 Pm 3N7 15 min
1/2 bush dead sea clams
+ live conchs. Black mud
ESE 3.8 miles

N. 4.15 PM- Soft.
N min,
7 conchs + 2 large quahogs.
E by S 2.3 miles
Located trap—
Went into Cape Cran
N 1/2 W.
NE by E 1/2 E
W by N 1/2 N

S½ E 5-3/10 miles

Sta 10378 Aug 11

NE light clear. Smooth

Meerays Shoal

9.45 AM — 10.30 AM

0 70 W.S.

R. 14E 21.1 @ 22 W.S.

14. m.

10 AM.

Otter trawl ½ hr.

20 net 0 20 min fair mero

½ m net 0 " Scanty.

Red + gray worm tubes

Sea-robins 23

Puffer 1

Summer flounder 5

Window-pane 1 TT 10718

Skate 1 (Same as Sta 10737)

Wt + length of P. dentatus

37 cm	460 g
38	525 g
50	1155 g
41	660 g
34	405 g.

Scales + data taken

S ¼E 7.2 miles

A. 8 fath Soft
15 minutes.

Clam dredge 11.15 AM
dead sea-clam shells
& 1 quahog.

B. 12.30 PM. ½ hr.
Otter trawl. S by E 8.8 miles
75 Sea robins [204 TT 10720
10721
7 flounders
1 Windowpane TT 10719

C. 1 3/4 P.M.
Sand bottom + gravel
Clam dredge 15 min's SSE 8 miles
1 sea clam; ½ bush[s] large sea-clam shells.
The dredge does not dig deep enough to get these sea-clams.

D 3 10 P.M. SE 3/4 S. 11½ miles Hdr
clam dredge
Gravel + pebbles, barren

$$\frac{18.}{\frac{14}{32}}$$

Sts 10279 Aug 11
4.00 P.M. - 6 P.M.

Calm clear ground mist

27 mi.

1 mile S Pilgrim's Point lighthouse

0 74.5 60°

-25 *148 11.05 @ 18

Surface temperature

Bottom set 1 Clam — Ctenothan 2 Ophiura

1/2 mi set 0 Scanty

20 set 0 "

Scrall of dredge 25 Nuculana clams
1 Bank sand dollar, stones
& dead pectin clam shells

~~Mt Tom 1 mile from lighthouse~~
Hills & cut coming to surface

1:55 Leg 12 [illegible]
2.45 to [illegible]

Clear, 15 W. chilly.
Spec time record

38 fath. 5.1 to
wind quiet. Bit of stem flow at 1st set

0		94.5		1:55.
20	149	17.17	@ 24	W S
40	148	4.5	@ 22	W S
65	153	4.4	@ 21	W S.
34	148	4.4	@ 17	

Scallop chart p. 15 min.
6 scallops + 1 bad star from gurdy
wheel.

Boat net: Rake 0 Cal of Cutter wire
Cutter net 25 - 0 Scanty down all fish + scallops
20 net 0 Scanty
Ring " 0 [illegible]

1987
107
120.6

10382 Aug 12 11.30 a.m.
NW [illegible] 4.00 p.m.

66 [illegible] = 120 m.

0		76°		W S W
40	R 149	7.55	@ 24	W S W
80	" 148	5.10	@ 22	W S W
120	" 153	7.05	@ 27	

[illegible] = 70 [illegible] =
12.45 m. + last travel = 12.45 m.

1 P.M.
Position mark 120 - 0
Water mark 50 - 0
20 [illegible] 0 [illegible]
1/2 m mark 0 [illegible]

Often travel. Bottom 10 m.

Other Travel

1 lobster 31 cm long
3 water flowers
1 crab 2 Mantis
Crab, star, sponge
large calf, + some
small crustacea

TT 10722 to 10731 in
good life - fish, bottom.

1 squirrel fish
1 silver fish
(no net hair taken)

4.45 pm 5.30 pm

T. W Cabin clear

96 fath = 175 m

0	76.5		
25	148	13.68@73	
50	153	5.2 @ 71	
100	149	5.7 @ 175	WS
150	148	11.45@ 16	WS
175	152	9.74@17	WS

Humpback Whale

1538 ft Aug 12.

6.15 pm – 9 pm

WW W [illegible] cloud cover

0		76.5	WS
50	149	9.82 @ 25	
100	148	10.64 @ 25	
150	152	11.3 @ 25	
250	149	9.5 @ 20	NE
350	148	6.48 @ 18	WS
500	153	5.0 @ 20	WS

Bottom out 500-0 [illegible]

Bottom out 750-0 [illegible]

20 out 0

1/2 in out 0 [illegible]

[illegible]

Sunday 5:30 to 7:45 pm

10:30 Tuesday 13

5:30 Enter Set for Table in ... shoulder, ... NW Gulf

Pencil Writing - ... brief ...

1/4 cut on surface

Surface temp 76°

Sand Dunes

Put over other towel

15 min

(2 pilings for storm walls)

Flagpole + Gulf weed

15°2 6 (Portland) Aug 15.

N° Squally fresh smooth cloudy

95 fad — 173 m.
Sur for tidgist 1200 P.M.
Squall from North. at 2 P.M.
just got day + load to
cut away bit of trawl.

0	
25	Fresh moonsail breeze
50	to reefed jib + foresail.
100	
150	4 oc P.M. wind
175	moderating, got up

Mainsail with one reef.

Queen

10385 Sta 13 4:30 PM

NE Stiff rough choppy short,

⊙ temp. 76.5
34 fath = 62 m.
water mark 45-0 cm 1/2 low
1/2 m out 0. 25 min.
Have caught 12 with thermometer.

Water not warmer by Shore,
Cattle + Pools.
1/2 m out about 18 spec. fish
+ 1/4 r.

16387 Aug 21.
12.30 PM.
Clear smooth W light Pt.

Cape Henry St Percy -
(last of ebb
13 miles'

O 74 W S.
(Surf) 12m 14s 23.3 @ 2V WS.

2 m net O Rich grey sister
½ m net O Scanty Red fish fishes
Sled net Bot - O & alcyonaria.
Otter trawl. 15 min (clear)
7 Blue crabs 2 y sea robins, 1 winter flounder

Very few ctenophores
1 small shark seen

Hauling between ~~27 & 28~~
fisherman with down
out for blackfish. No luck
but one otter trawl 10 min
hard bottom
3.15 - 320 PM
Aug 21 st
Sta 10 3 ~~6 8~~

Creatures,	meith, g	wet wt	hard rock
29 m	280 g	27	280
32	410	27	265
30	340	25	195
29	350	27	255
29	320		195
28	290	1 quahog/hr	
28	300	TT 10732	
28	330	Sample size	
31	445	volume	
27	290		

Sta 10387 Aug 21
4:45 P.M. - 5:45 P.M.
15 miles E of Bluff
Clear, smooth, light & large
Blue, clear water.

19 m.

0		75	WSW
10	148	23.45	26
18	152	22.40	2575

Sled 1/2 net → for shrimp & ff
20 net 0 " fair mix
1/2 m net 0 " few sardines, ff & otoliths

Otter trawl 10 min.
5 croakers, same as before
3 sea robins
net slightly torn

18.3
7.12
2.61

10390 Aug 21
8.15 P.m. - 9.45 P.m.
South, fast, smooth, clear
26 nm.

0	45		WS.
12	148	23.5 @ 24	WS
25	153	16.72 @ 24	WS

8.40 P.m.
Sled out 26-0 ½ h. Some [illegible]
20 out 0 " fair bank noise
½ nm. out 0 " [illegible]

Otter trawl. 10 min.
2 smelt, 1 dogfish.
Bycatch, bonus bottom

$\frac{3.2.5}{40.1}$

10:11 Aug. 22 12.40 Am
1.45 Am

Clear first 2 hrs. warm
nea.

22 fall. 40 m.
Rich mowing fields

∞	73		WS
20	148		WS
40	153		WS

Sl. [illegible] Fall [illegible] swarm of.
20 rd O " Scanty
1½ M rd O " of [illegible]

After Frost 12 m.
3 Rangs 1 small scattg
1 small Empis sp. TT 10733
few stars + thin clear sky

Sta 10:?—
2:?? Arr. 6 Arr.
45 feet - 82 min.

0		72	WS
20	148	21.95 @ 23	WS
40	149	6.92 @ 25	WS
60	148	6.2 @ 22	WS
80	152	5.44 @ 22	

Anch 440 Arr
1/2 h - dk
Sandy rock bottom
Sta out 7:?-0 Arr. Channel
20 out 0 Very clear
1/2 h in 0 Sandy blue rock bottom
dk

After travel
Sailfish a few shells

10393 Aug 32
7.30 Am.

W fuel clear ... water very blue.

O		T2	WS.
50	149	12.09 @ 23	WS
100	148	9.05 @ 23	WS
200	153	11.48 @ 23	WS
300	149	6.59 @ 23	WS
400	148	7.10 @ 21	WS
500	153	5.45 @ 18	WS

Fuel = 9.05
Bottom mat 500-0 ft. Scanty pummel entire
Water mat 350-0 ft. large = soft ac
1/2 In mat O 1/2 ft Scanty
20 mat O " "

36.5
5.4
H1.9

1/12/11 Aug 26 8 A.M.
7:30 A.M.

Clear SE. Light Smoke.

42 in.

0		69.5	WS
20	153	12.52 @ 25	WS
40	148	7.72 @ 24	WS.

Set 7:20 A.M.

Bottom net 42-0 Scant mist of Smoke + Fog.

1/2 m net 0 Nearly [illegible]

20 net 0 Scant.

After Count. 20 mins.

1 Semipalmated Sandpiper
2 Semipalmated Sandpipers
1 Least Sandpiper

Spotted Sandpiper 23
Least " 1b

1 Barred Owl Hatched Hermit Thr.

1.5
1'8
343

10395 Aug 26 2 Phr
3.45 Phr

Clear. S. light swarotts

38 m.

0,		70	W.S.
17.	148	17.9@24	
35,	103	9.14@15	

note 2-30 pm.

Bottom net 38-0 1/2 hr Swarm (1 gal) of flounder cf. Putn. 099. etc

1/2 m net 0 Scanty

20 net 0 "

Otter trawl 20 min (10734 etc 10737

1 small butterfish
2 " Limanda
1 P. oblongus
2 scallops

a few pound dollars

$$\begin{array}{r} 18.2 \\ 10.9 \\ \hline 291 \end{array}$$

L0396 Aug 26 10.30 PM
11.45 PM
Clear light S. Smooth sea.
Brilliant aurora
Water firing brilliantly
29 m.

0. 66.5 45
28 153. 12.3 @ 20 WS

10.55 PM

Bottom net 20 min Swarm Sag. Yf + Cuttle.
1/2 m " fair haul Fods + Myct
20 net " " " Amers

10397 Aug 28

Nantucket Sol.

11 AM - 11.30 SE light

Smooth cloudy.

Surface temp 69 W.S.

~~Meter net~~ 3-0m. ½ hr.

20 net 0 " fair down mix